

RCI

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THE BGW 250 SERIES PROFESSIONAL POWER AMPLIFIERS



- New Multicolored LED light ladder V.U. meter with rear-panel calibration switch (Model 250E) • New Precision Laser trimmed Stepped Attenuators • Arc-Interruptor speaker protection circuitry • Magnetic circuit breaker mains switch
- Redundant output stage circuitry using six all metal 150-watt complementary transistors per channel • Professional input connectors including XLR-type and 1/4" phone jacks with octal sockets for optional plug-in input transformers
- Separate circuit and chassis grounding • Loss-of-feedback clipping indicators (Model 250D)

In 1973 we introduced our original Model 250 amplifier. It immediately became our best selling Model. The extraordinary design made it the standard by which all other professional amplifiers were soon compared. The Model 250 offered a level of performance and reliability that established it as the most advanced dual-channel, solid-state power amplifier available to the audio professional. Upon this foundation we steadily refined this original design and subsequently introduced our Models 250B and C versions: new generations of the original product, wherein we applied the latest advancements in technology and engineering when we felt the improvements warranted newer model designations.

In tests, performed by the US Army Air Force Exchange, of comparably rated power amplifiers, the BGW 250D received the highest score of all amplifiers tested. Points were earned for each performance parameter measured. These parameters included: Power Output, Total Harmonic & Intermodulation Distortion, Signal to Noise Ratio, Gain, and Frequency Response. Total points for units tested ranged from a low of 55 to a high of 850. The BGW 250D scored the highest of all units tested.

Without changing its basic packaging concept, and building upon a successful and highly accepted product, we now introduce the new improved Models 250D & E. Identical, but for their front-panel power indicators.

Packaging of the 250 Series is unlike other ordinary power amplifiers: Each individual channel is on a plug-in module. These rugged assemblies, each with their own massive heat sink, provide a level of thermal efficiency which overcomes many of the problems inherent in other rack-mounted amplifiers. In any professional audio application, the New Improved Models 250D & E will provide unmatched performance which will insure their place within a product line whose heritage and reputation is unequalled.

Specifications: BGW Models 250D/E

TOTAL OUTPUT POWER—360 WATTS

The total output power is the actual power output as measured during final test. Test conditions: mono operation 8-ohm load 1kHz at 0.1% Total Harmonic Distortion, line voltage maintained at 120 volts RMS 60Hz. This power is equivalent to the sum of both channels when driving 4-ohm loads in the stereo mode.

OUTPUT POWER

100 watts minimum sine wave continuous average power output per channel with both channels driving 8-ohm loads over a power band from 20Hz to 20kHz. The maximum Total Harmonic Distortion at any power level from 250 milliwatts to 100 watts shall be no more than 0.1%.

150 watts minimum sine wave continuous average power output per channel with both channels driving 4-ohm loads over a power band from 20Hz to 20kHz. The maximum Total Harmonic Distortion at any power level from 250 milliwatts to 126 watts shall be no more than 0.15%.

300 watts minimum sine wave continuous average power output monaural driving an 8-ohm load over a power band from 20Hz to 20kHz. The maximum Total Harmonic Distortion at any power level from 250 milliwatts to 300 watts shall be no more than 0.15%.

Intermodulation Distortion:	Less than 0.02% from 250 milliwatts to rated power.
Small Signal Frequency Response:	+0, -3dB, 1Hz to 90kHz +0, -0.25dB, 20Hz to 20kHz
Hum and Noise Level:	Better than 110dB below 100 watts (unweighted, 20Hz to 20kHz).
Input Sensitivity:	1.41 volts for rated output. Voltage gain 26dB (20 times).
Input Impedance:	15k ohms
Damping Factor:	Greater than 230 to 1 at 8 ohms and 1kHz.
D.C. Offset Voltage:	Less than 10 millivolts (at output terminals)
Load Impedance:	Designed for any load impedance equal to or greater than 4 ohms.
Power Requirements:	100, 120, 200, 220 or 240 volts, 50-60Hz 560 watts maximum.
Semiconductor Complement:	2 Op Amp IC's, 30 transistors, 4 zener diodes, 6 diodes, and 3 LED's (250E has additional semiconductors in metering circuit).
Dimensions:	5¼" by 19" standard rack front panel by 11¼" deep. (13.34 cm x 48.26 cm x 29.85 cm).
Weight:	33 lbs. net, 38 lbs. shipping 15kg. net, 17.2kg. shipping

* All specifications apply to both Model 250D and Model 250E
All specifications and features are subject to change without notice.

